

Chapter 7: Right Triangles
Lesson 7-2: Pythagorean Theorem
Homework

name _____
 date _____
 period _____

Determine if the given measures are measures of the sides of a right triangle. If not, is the triangle acute or obtuse?

1. 13, 5, 12 2. 37, 12, 34 3. 9, 21, 22

Draw a figure for each exercise. The length and width of a rectangle are given. Find the length of a diagonal.

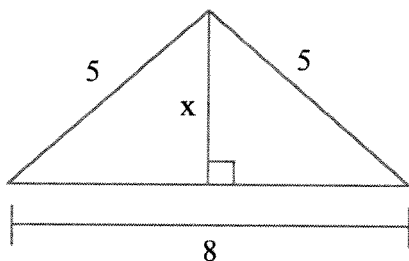
4. 8 and 6 5. 0.8 and 0.6 6. 80 and 60 7. $\sqrt{3}$ and 1

The length of a diagonal of a square is given. find the length of a side of the square.

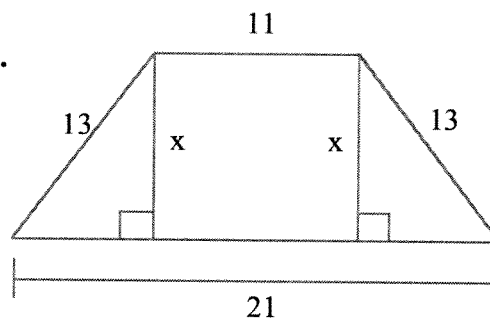
8. $\sqrt{2}$ 9. 2 10. $20k$

Find the value of x in each figure.

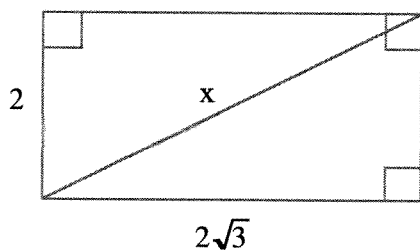
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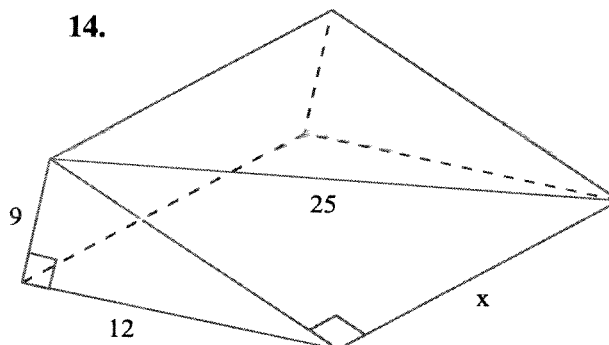
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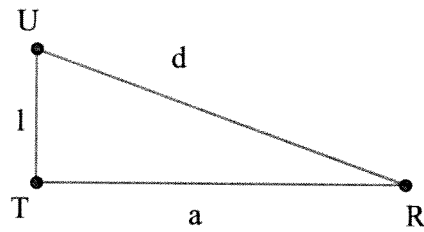
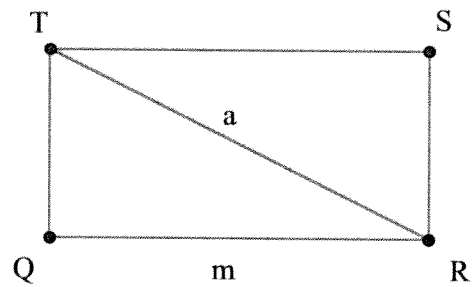
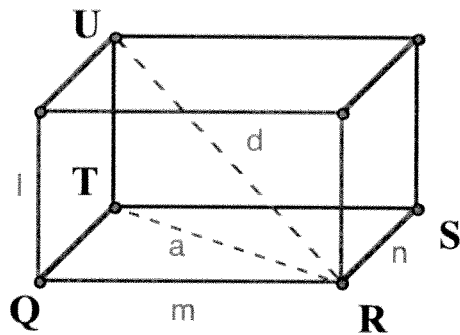
13.



14.



Find diagonal d of the rectangular box when l , m , and n are equal to the following. (Hint: first find a)



15. $2, 5, 5$

16. $\sqrt{5}, \sqrt{7}, \sqrt{6},$

17. e, e, e